PLANE HEATING ELEMENT, MANUFACTURE THEREOF, UTILIZING METHOD THEREOF, AND HEATING APPARATUS EMPLOYING THEREOF

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Abstract of **JP10069963**

PROBLEM TO BE SOLVED: To provide a plane heating element whose temperature is easily controlled and which can stably supply energy as a heat source, is easy to be maintained well, does not cause the environment destruction, provide a manufacturing method of the plane heating element, provide a utilizing method of the plane heating element, and provide a heating apparatus employing the plane heating element. SOLUTION: A heating element body 10 comprises glass fibers 12, carbon fibers 11, and a conductor 13. The glass fibers 12 are fibers for insulating and positioning and woven in the longitudinal and the lateral directions. The carbon fibers 11 are fibers for radiating heat and interwoven in the textile of the glass fibers 12 at prescribed intervals in the longitudinal direction. The conductor 13 is copper wires and as such for electrodes and interwoven in the longitudinal direction in both end parts in the longitudinal directions. A plane heating element is produced by bonding and sticking insulating resin sheets 15, 16 to both sides of the heating element body 10 through a bonding member 14 of thermosetting resin.